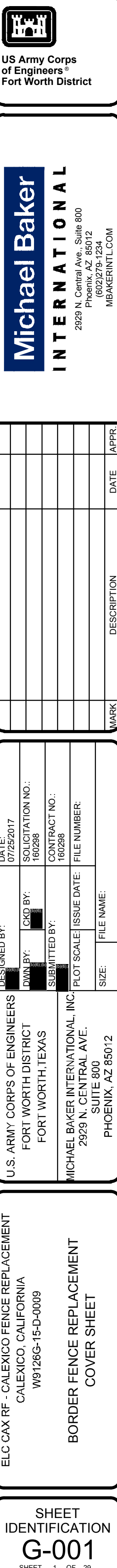


## D

## C



A











	1	2	3	4	5
D	<p><b>PREPARED SUBGRADE:</b></p> <p>1. DUE TO VARIABILITY OF SITE SOILS, ISOLATED AREAS OF THE SUBGRADE MAY REQUIRE OVER-EXCAVATION AND RECOMPACTION TO MITIGATE LOOSE OR DISTURBED SOIL CONDITIONS. SUBGRADE FOR THE ENTIRE BORDER ROAD SHALL BE PROOF-ROLLED WITH A LOADED 10,000-GALLON WATER TRUCK FOLLOWING CLEARING, GRUBBING, AND SITE GRADING. AREAS OBSERVED TO DEFLECT UNDER THE PRESSURE EXERTED BY THE 10,000-GALLON WATER TRUCK WILL REQUIRE OVER-EXCAVATION AND REPLACEMENT WITH ENGINEERED FILL.</p> <p>2. FOR CUT AREAS, CUT PROPOSED ROAD TO GRADE, SCARIFY TOP EIGHT (8) INCHES OF SUBGRADE AND MOISTURE CONDITION. FOR FILL AREAS, SCARIFY TOP SIX (6) INCHES OF EXISTING GRADE AND MOISTURE CONDITION.</p> <p>3. COMPACT SUBGRADE FOR CUT AREAS TO (b) (7)(E) OF OPTIMUM MOISTURE CONTENT. FILL MATERIAL SHALL BE COMPACT AND TESTED IN SIX (6) INCH MAXIMUM LIFTS AND SHALL CARRY SIMILAR SOIL PROPERTIES AS SHOWN ON BORING LOGS. COMPACTION OF FILL MATERIAL IN SUBGRADE SHALL BE TO (b) (7)(E) OF OPTIMUM MOISTURE CONTENT.</p> <p>4. SITE GRADING PERFORMED DURING OR SUBSEQUENT TO WET WEATHER MAY RESULT IN NEAR-SURFACE SITE SOILS WITH MOISTURE CONTENTS SIGNIFICANTLY ABOVE OPTIMUM. THIS CONDITION COULD HAMPER EQUIPMENT MANEUVERABILITY AND EFFORTS TO COMPACT SITE SOILS TO THE RECOMMENDED COMPACTION CRITERIA. DURING MOST OF THE YEAR, THE SITE WILL TYPICALLY DRY TO WORKABLE MOISTURE CONTENTS WITHIN ONE TO TWO DAYS. IF TIME IS A CRITICAL FACTOR, DISKING FOR AERATION, CHEMICAL TREATMENT, REPLACEMENT WITH DRIER MATERIAL, STABILIZATION WITH A GEOTEXTILE FABRIC OR GRID, OR OTHER METHODS MAY BE IMPLEMENTED TO REDUCE EXCESSIVE SOIL MOISTURE AND FACILITATE EARTHWORK OPERATIONS.</p>				
	<p><b>AGGREGATE BASE COURSE AND GRAVEL SURFACING:</b></p> <p>1. AGGREGATE COURSE SHALL BE USED DIRECTLY ABOVE THE MOISTURE CONDITIONED AND COMPACTED SUBGRADE. AGGREGATE COURSE SHALL BE LAID OUT IN A SINGLE LIFT AND COMPACTED TO (b) (7)(E) OF OPTIMUM MOISTURE CONTENT. ALL AGGREGATE SURFACE COURSE SHALL HAVE A PI AND GRADATION AS SPECIFIED IN THE GEOTECHNICAL REPORT:</p>				
C					
B					
A					

THIS SHEET IS APPLICABLE TO DRAINAGE CROSSING AREAS ONLY. OTHER LOCATIONS TO BE DESIGNED BY OTHERS PER TI STANDARDS. REFER TO "CG" SERIES SHEETS FOR LIMITS OF DRAINAGE CROSSINGS.



SHEET IDENTIFICATION  
**GI103**  
SHEET 4 OF 29

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009  
  
BORDER FENCE REPLACEMENT  
GENERAL NOTES  
SHEET 2 OF 2

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: [Redacted]	DATE: 07/25/2017
	DRAWN BY: [Redacted]	REVISION NO.: 90208
MICHAEL BAKER INTERNATIONAL INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	SUBMITTED BY: [Redacted]	CONTRACT NO.: 10228
	FILE NAME: [Redacted]	FILE NUMBER: [Redacted]

MARK	DESCRIPTION	DATE	APPR.

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INTERNATIONAL

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D

C

B

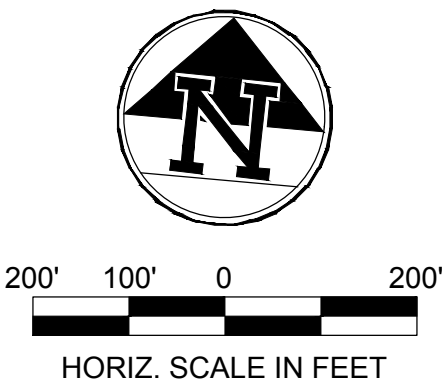
A

FENCE ALIGNMENT TABLE				
LINE #	DIRECTION	LENGTH	START POINT	END POINT
(b) (7)(E)				

(b) (7)(E)

(b) (7)(E)

(b) (7)(E)



**HORIZONTAL AND VERTICAL CONTROL:**  
THIS PROJECT WAS MAPPED AND LAID OUT USING THE FOLLOWING DATUMS:  
  
HORIZONTAL: CALIFORNIA STATE PLANE (b) (7)(E) COORDINATES SYSTEM (SPCS)  
NORTH AMERICAN DATUM OF 1983 (NAD83)  
VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-SETTING ANY BENCHMARKS FOUND WITHIN THE CONSTRUCTION FOOT PRINT. THIS WORK SHALL BE DONE UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR AND THE INFORMATION SHALL BE PROVIDED TO THE GOVERNMENT FOR THEIR RECORDS.

POINT	SPC-CA-(b) (7)(E) NORTHING INTERNATIONAL FT.	SPC-CA-(b) (7)(E) EASTING INTERNATIONAL FT.	NAD83 LATITUDE	NAD83 LONGITUDE
(b) (7)(E)				



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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT  
FORT WORTH, TEXAS

DESIGNED BY:  
[Redacted]  
CHECKED BY:  
[Redacted]  
DATE:  
07/25/2017

PROJECT NO.:  
[Redacted]

CONTRACT NO.:  
10288

FILE NUMBER:  
[Redacted]

FILE NAME:  
[Redacted]

MICHAEL BAKER INTERNATIONAL INC.  
2929 N. CENTRAL AVE.  
SUITE 800  
PHOENIX, AZ 85012

SIZE:  
[Redacted]

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
GEOMETRIC DATA AND KEY MAP

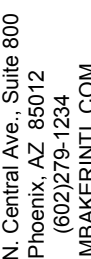
SHEET  
IDENTIFICATION  
GI104

SHEET 5 OF 29

A

SEE SHEET BOTTOM

(b) (7)(E)

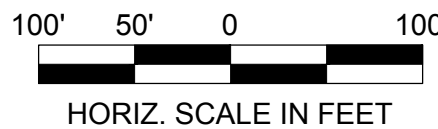
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U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: 	SOLICITATION NO.: 07/252017
	DRAWN BY: 	CONTRACT NO.: 160286
MICHAEL BAKER INTERNATIONAL, INC. 2525 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	CHECKED BY: 	PLOTT SCALE: 1/8"=1'-0"
	TITLED BY: 	ISSUE DATE: 10/26/86
	SIZE: 11" x 17"	FILE NAME: 160286.dwg

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

# BORDER FENCE REPLACEMENT STAGING AREA PLAN

SHEET  
IDENTIFICATION  
**GC101**  
SHEET 6 OF 28





(b) (7)(E)

**MATCHLINE STA:**  
**SEE SHEET CS102**



HORIZ. SCALE IN FEET

VERT. SCALE IN FEET

(b) (7)(E)

### CONSTRUCTION NOTES

(b) (7)(E)



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### DEMOLITION NOTES

- ① EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
- ② EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
- ③ EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

NOTES:

1. THIS SHEET IS AT 30% DESIGN AND NOT TO BE USED FOR CONSTRUCTION.
2. REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.
3. NEW FENCE AND ROADS SHALL BE DESIGNED TO CONNECT TO THE ALIGNMENTS AND ELEVATIONS SHOWN ON THE "CG" SERIES SHEETS.
4. CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.
5. CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.
6. REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.



SHEET  
IDENTIFICATION  
**CS101**  
SHEET 7 OF 29

CALEXICO, CALIFORNIA  
W9126G-15-D-0009

PLAN AND PROFILE  
STA 10+00.00 TO STA 19+00.00

---



CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

- 1 EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
- 2 EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
- 3 EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

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  - CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.
  - REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.



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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: [Redacted]	DATE: 07/25/2017
	DRAWN BY: [Redacted]	REVISION NO.: 90208
MICHAEL BAKER INTERNATIONAL INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	SUBMITTED BY: [Redacted]	CONTRACT NO.: 10228
	FILE NAME: [Redacted]	FILE NUMBER: [Redacted]

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 19+00.00 TO STA 28+00.00

SHEET IDENTIFICATION  
**CS102**  
SHEET 8 OF 29

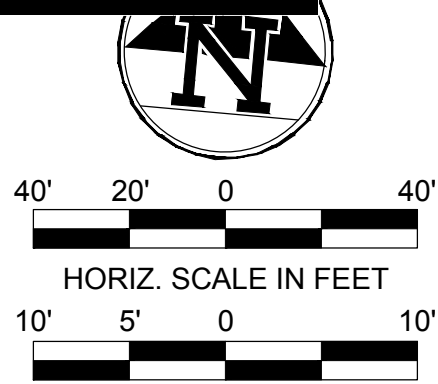


(b) (7)(E)

(b) (7)(E)

SEE SHEET CS102  
MATCHLINE STA:

MATCHLINE STA  
SEE SHEET CS104



CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

- 1 EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
- 2 EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
- 3 EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

NOTES:

- 1. THIS SHEET IS AT 30% DESIGN AND NOT TO BE USED FOR CONSTRUCTION.
- 2. REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.
- 3. NEW FENCE AND ROADS SHALL BE DESIGNED TO CONNECT TO THE ALIGNMENTS AND ELEVATIONS SHOWN ON THE "CG" SERIES SHEETS.
- 4. CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.
- 5. CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.
- 6. REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.



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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: OWN BY: DRAWN BY:	DATE: 07/25/2017
MICHAEL BAKER INTERNATIONAL INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	SUBMITTED BY: PLOT SCALE: FILE NAME:	ISSUATION NO.: 90258 CONTRACT NO.: 10258 FILE NUMBER:

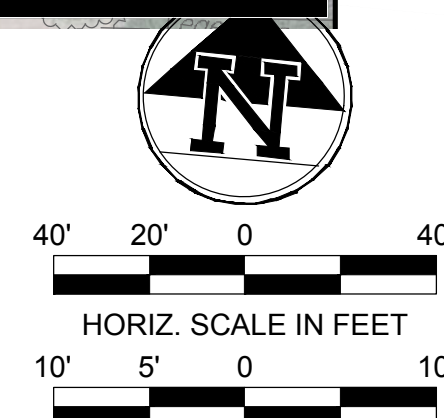
ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009  
BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 28+00.00 TO STA 37+00.00

SHEET  
IDENTIFICATION  
**CS103**  
SHEET 9 OF 29

A

**MATCHLINE STA:** [REDACTED]  
**SEE SHEET CS105**

(b) (7)(E)



(b) (7)(E)



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[illegible]

1	EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
2	EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
3	EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

1. THIS SHEET IS AT 30% DESIGN AND NOT TO BE USED FOR CONSTRUCTION.
2. REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.
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4. CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.
5. CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.
6. REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.

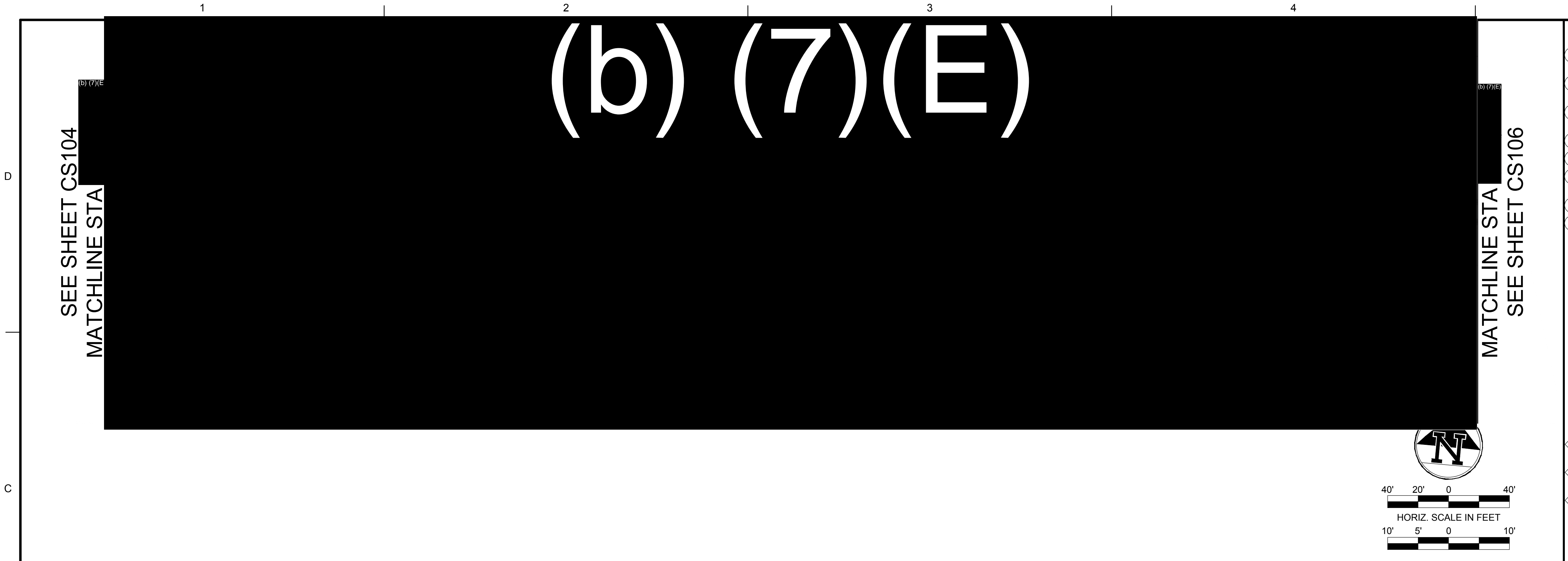


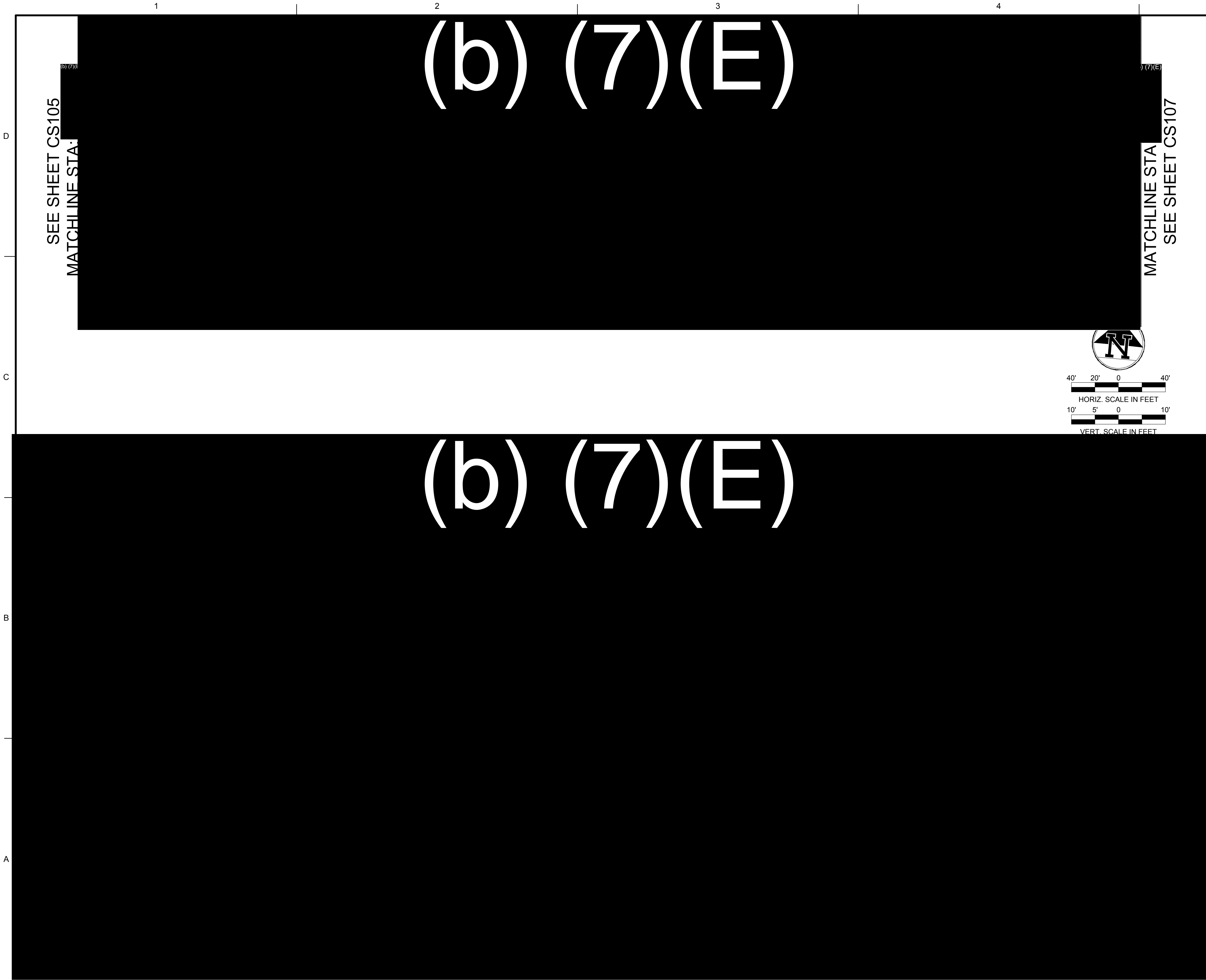
SHEET  
IDENTIFICATION  
**CS104**  
SHEET 10 OF 29

W9126G-15-D-0009  
CALEXICO, CALIFORNIA  
ELCAX RF - CALEXICO FENCE REPLACEMENT

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 37+00 TO STA 46+00 00







CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

1

EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED

2

EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED

3

EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

NOTES:

1.

THIS SHEET IS AT 30% DESIGN AND NOT TO BE USED FOR CONSTRUCTION.

2.

REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.

3.

NEW FENCE AND ROADS SHALL BE DESIGNED TO CONNECT TO THE ALIGNMENTS AND ELEVATIONS SHOWN ON THE "CG" SERIES SHEETS.

4.

CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.

5.

CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.

6.

REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.



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U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT  
FORT WORTH, TEXAS

DESIGNED BY:  
OWN BY:  
DRAWN BY:

DATE:  
07/25/2017  
07/25/2017  
07/25/2017

MICHAEL BAKER INTERNATIONAL INC.  
2929 N. CENTRAL AVE.  
SUITE 800  
PHOENIX, AZ 85012

CONTRACT NO.:  
10228

ISSUE DATE:  
FILE NUMBER:  
FILE NAME:

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 55+00.00 TO STA 64+00.00

SHEET IDENTIFICATION  
CS106

SHEET 12 OF 29

MARK

DATE

APPR.





CONSTRUCTION NOTES

(b) (7)(E)

- DEMOLITION NOTES
- 1 EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
  - 2 EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
  - 3 EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

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  - REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.



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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: DWG BY: CHK BY:	DATE: 07/25/2017
MICHAEL BAKER INTERNATIONAL INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012 <td>SUBMITTED BY: PLOT SCALE: ISSUE DATE: FILE NAME: SIZE:</td> <td>SOLICITATION NO.: CONTRACT NO.: 10228 FILE NUMBER:</td>	SUBMITTED BY: PLOT SCALE: ISSUE DATE: FILE NAME: SIZE:	SOLICITATION NO.: CONTRACT NO.: 10228 FILE NUMBER:

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9128G-15-D-0009

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 64+00.00 TO STA 73+00.00

SHEET  
IDENTIFICATION  
**CS107**

SHEET 13 OF 29



CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

1

EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED

2

EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED

3

EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

NOTES:

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REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.

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NEW FENCE AND ROADS SHALL BE DESIGNED TO CONNECT TO THE ALIGNMENTS AND ELEVATIONS SHOWN ON THE "CG" SERIES SHEETS.

4.

CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.

5.

CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.

6.

REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 73+00.00 TO STA 82+00.00

U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT  
FORT WORTH, TEXAS

DESIGNED BY: (b) (7)(E)  
DRAWN BY: (b) (7)(E)  
CHECKED BY: (b) (7)(E)  
SUBMITTED BY: (b) (7)(E)

DATE: 07/25/2017  
SOLICITATION NO.: 90208  
CONTRACT NO.: 10208  
PLOT SCALE: (b) (7)(E)  
ISSUE DATE: (b) (7)(E)  
FILE NAME: (b) (7)(E)  
SIZE: (b) (7)(E)

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2929 N. CENTRAL AVE.  
SUITE 800  
PHOENIX, AZ 85012

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Fort Worth District

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MARK

DATE

APPR.

DRAFT  
SUBMITTAL

SHEET IDENTIFICATION  
CS108  
SHEET 14 OF 29

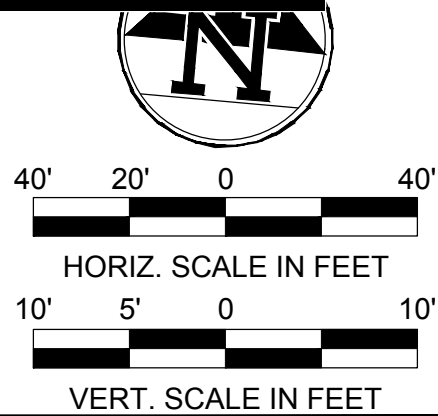


(b) (7)(E)

(b) (7)(E)

SEE SHEET CS108  
MATCHLINE STA:

MATCHLINE STA:  
SEE SHEET CS110



CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

- 1 EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
- 2 EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
- 3 EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

NOTES:

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4. CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.
5. CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.
6. REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.







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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: 	DATE: 07/25/2017
	DRAWN BY: 	CHECK BY: 
MICHAEL BAKER INTERNATIONAL INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	SUBMITTED BY: 	CONTRACT NO.: 10228
	FILE NUMBER: 	FILE NAME: 

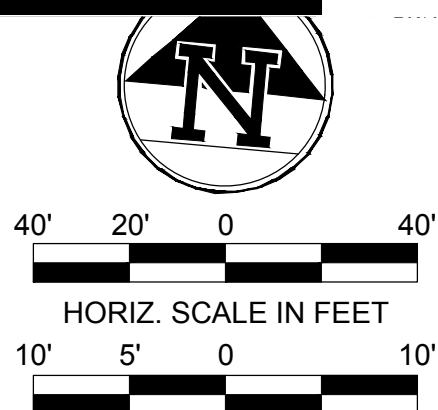
ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 82+00.00 TO STA 91+00.00

SHEET  
IDENTIFICATION  
CS109  
SHEET 15 OF 29

(b) (7)(E)

**MATCHLINE STA:** XXXXXXXXXX  
**SEE SHEET CS111**



**(b) (7)(E)**

- ① EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
- ② EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
- ③ EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

1. THIS SHEET IS AT 30% DESIGN AND NOT TO BE USED FOR CONSTRUCTION.
2. REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.
3. NEW FENCE AND ROADS SHALL BE DESIGNED TO CONNECT TO THE ALIGNMENTS AND ELEVATIONS SHOWN ON THE "CG" SERIES SHEETS.
4. CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET GH02.
5. CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.
6. REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.



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**INTERNATIONAL**  
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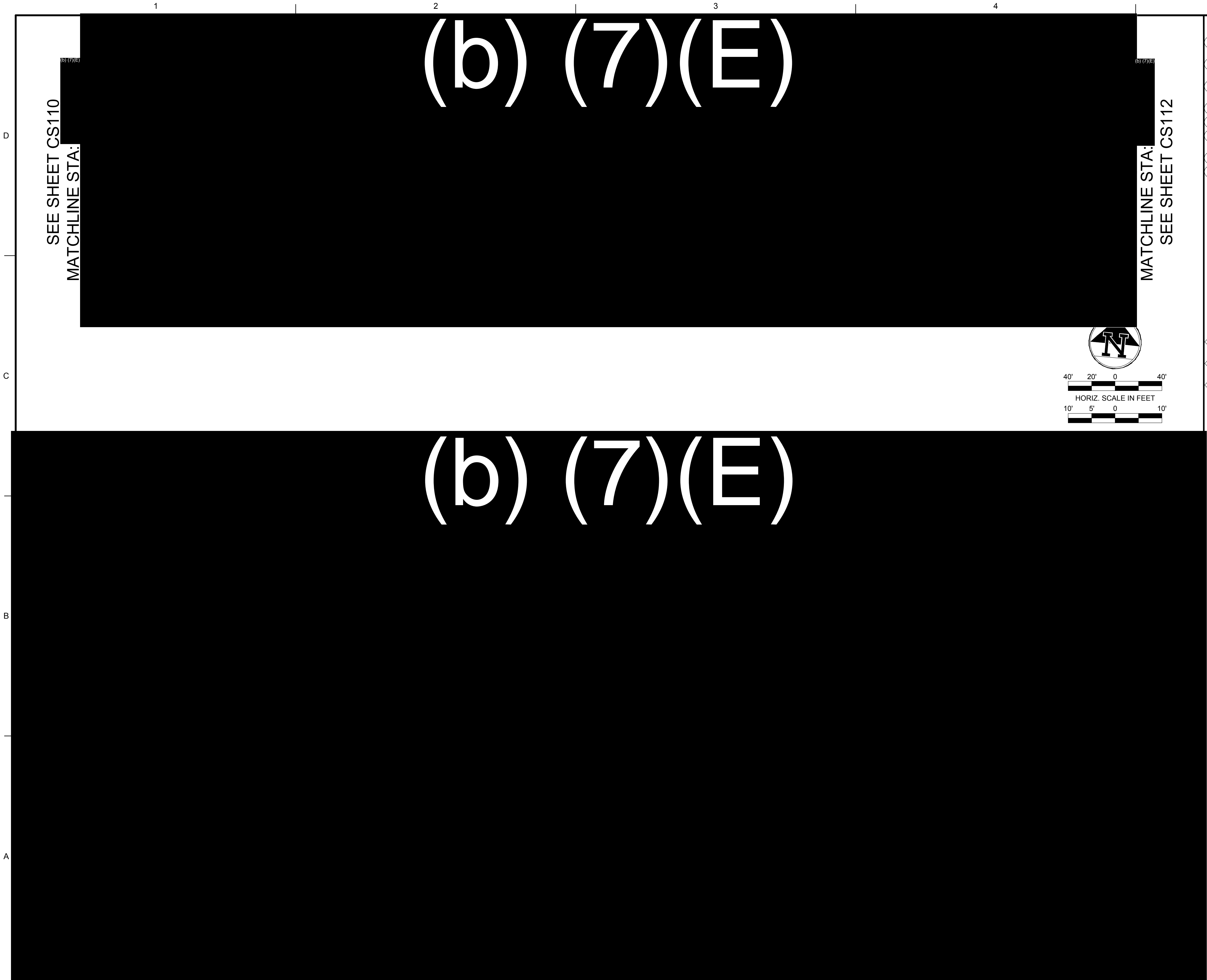
[illegible]

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY:	CKD BY:	DESIGNED NO.:
	160288	160288	07/25/017
MICHAEL BAKER INTERNATIONAL, INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	SUBMITTED BY:	ISSUE DATE:	CONTRACT NO.:
	160288	160288	160288
	PLOT SCALE:	FILE NUMBER:	
	SIZE:	FILE NAME:	

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

SHEET  
IDENTIFICATION  
**CS110**  
SHEET 16 OF 29





CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

1

EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED

2

EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED

3

EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

NOTES:

1.

THIS SHEET IS AT 30% DESIGN AND NOT TO BE USED FOR CONSTRUCTION.

2.

REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.

3.

NEW FENCE AND ROADS SHALL BE DESIGNED TO CONNECT TO THE ALIGNMENTS AND ELEVATIONS SHOWN ON THE "CG" SERIES SHEETS.

4.

CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.

5.

CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.

6.

REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.

U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT  
FORT WORTH, TEXAS

DESIGNED BY:

OWN BY:

DATE:

07/25/2017

FOR CITATION NO.:

90258

MICHAEL BAKER INTERNATIONAL INC.  
2929 N. CENTRAL AVE.  
SUITE 800  
PHOENIX, AZ 85012

DESIGNED BY:

OWN BY:

DATE:

07/25/2017

FOR CITATION NO.:

90258

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

DESIGNED BY:

OWN BY:

DATE:

07/25/2017

FOR CITATION NO.:

90258

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 100+00.00 TO STA 109+00.00

DESIGNED BY:

OWN BY:

DATE:

07/25/2017

FOR CITATION NO.:

90258

SHEET IDENTIFICATION  
CS111  
SHEET 17 OF 29

U.S. Army Corps of Engineers  
of Engineers  
Fort Worth District

Michael Baker International  
2929 N. Central Ave., Suite 800  
Phoenix, AZ 85012  
(602)79-1234  
mbackerint.com

MARK

DESCRIPTION

DATE

APPR.



CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

1

EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED

2

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6.

REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.

U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT  
FORT WORTH, TEXAS

DESIGNED BY:  
DRAWN BY:  
CHECK BY:  
SUBMITTED BY:

DATE:  
07/25/2017

SOLICITATION NO.:  
CONTRACT NO.:  
10298

FILE NUMBER:

FILE NAME:

SIZE:

MICHAEL BAKER INTERNATIONAL INC.  
2929 N. CENTRAL AVE.  
SUITE 800  
PHOENIX, AZ 85012

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9128G-15-D-0009

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 108+00.00 TO STA 118+00.00

SHEET IDENTIFICATION  
CS112

SHEET 18 OF 29

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Fort Worth District

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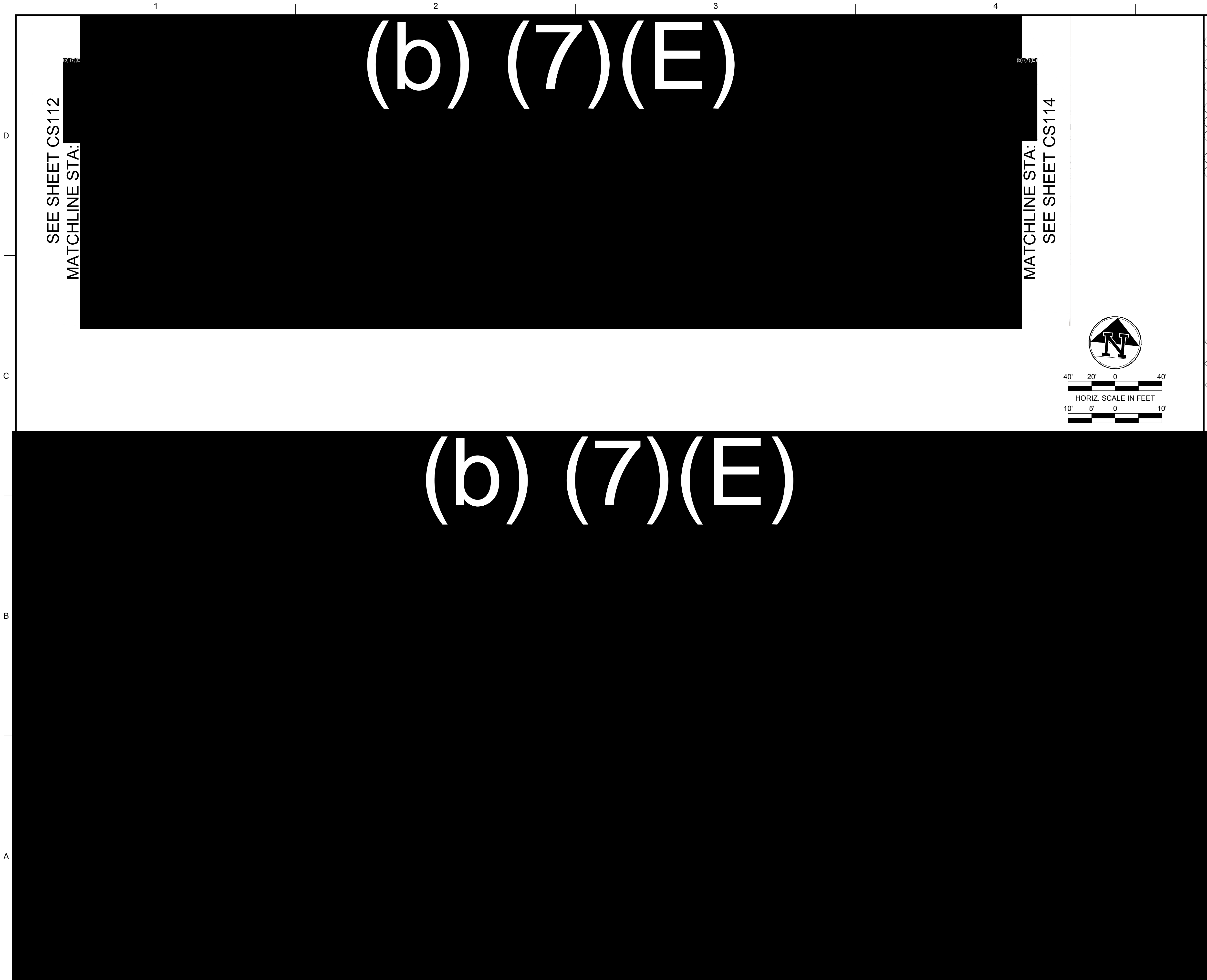
MARK

DATE

APPR.

DRAFT  
SUBMITTAL

NOT FOR CONSTRUCTION



CONSTRUCTION NOTES

(b) (7)(E)

DEMOLITION NOTES

1

EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED

2

EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED

3

EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

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5.

CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.

6.

REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.

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CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
PLAN AND PROFILE  
STA 118+00.00 TO STA 126+00.00

SHEET IDENTIFICATION  
CS113

SHEET 19 OF 29

U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT  
FORT WORTH, TEXAS

DESIGNED BY:  
OWN BY:  
DRAWN BY:  
CHECK BY:

DATE:  
07/25/2017  
07/25/2017  
07/25/2017

MICHAEL BAKER INTERNATIONAL INC.  
2929 N. CENTRAL AVE.  
SUITE 800  
PHOENIX, AZ 85012

DESIGNED BY:  
OWN BY:  
DRAWN BY:  
CHECK BY:

DATE:  
07/25/2017  
07/25/2017  
07/25/2017

CONTRACT NO.:  
10228

FILE NUMBER:  
10228

ISSUE DATE:  
07/25/2017

FILE NAME:  
10228

MARK

DESCRIPTION

DATE

APPR.



(b) (7)(E)

(b) (7)(E)

(b) (7)(E)



40' 20' 0 40'

HORIZ. SCALE IN FEET

10' 5' 0 10'

VERT. SCALE IN FEET

(b) (7)(E)

- 1 EXISTING FENCE, FOUNDATION AND LANDING MAT TO BE REMOVED
- 2 EXISTING FIBER OPTIC COMMUNICATIONS CABLE TO BE REMOVED
- 3 EXISTING VEHICLE BARRIER TO BE REMOVED BY OTHERS

1. THIS SHEET IS AT 30% DESIGN AND NOT TO BE USED FOR CONSTRUCTION.
2. REFER TO "CG" SERIES SHEETS FOR THE LIMITS OF THE 100% DESIGN.
3. NEW FENCE AND ROADS SHALL BE DESIGNED TO CONNECT TO THE ALIGNMENTS AND ELEVATIONS SHOWN ON THE "CG" SERIES SHEETS.
4. CONTRACTOR SHALL ENSURE SWPPP MEASURES ARE IMPLEMENTED AS STATED ON SHEET G102.
5. CONTRACTOR SHALL ENSURE THAT ALL DESIGNS MEET TACTICAL INFRASTRUCTURE STANDARDS LATEST VERSION.
6. REFER TO GENERAL NOTES FOR CONTACT INFORMATION TO COORDINATE POWER SHUT OFF.



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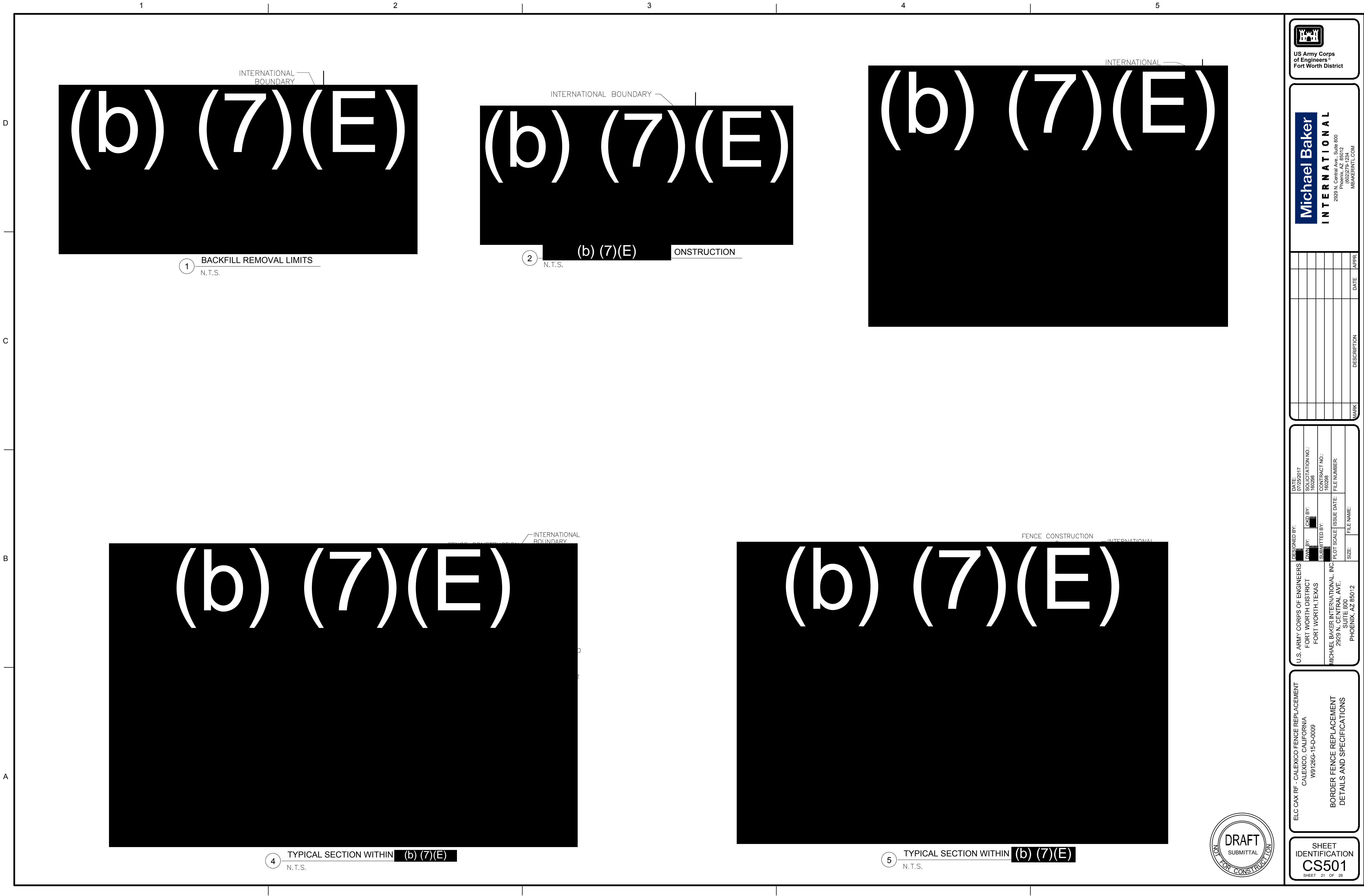
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U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: [REDACTED] DRAWN BY: [REDACTED] CHECKED BY: [REDACTED] DATE: 07/25/2017	SOLICITATION NO.: CONTRACT NO.: FILE NUMBER:
MICHAEL BAKER INTERNATIONAL, INC. 2939 CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	ISSUED BY: [REDACTED] PLOT SCALE: [REDACTED] ISSUE DATE: [REDACTED] SIZE: [REDACTED] FILE NAME:	

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009




CALEXICO, CALIFORNIA  
W9126G-15-D-0009

SHEET  
IDENTIFICATION  
**CS114**  
SHEET 20 OF 29



**Michael Baker**  
**INTERNATIONAL**  
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Phoenix, AZ 85012  
(602)794-1234  
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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY: 	DATE: 07/25/2017
	DRAWN BY: 	CHECK BY: 
MICHAEL BAKER INTERNATIONAL INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	SUBMITTED BY: 	CONTRACT NO.: 10228
	ISSUE DATE: 07/25/2017	FILE NUMBER: 10228
SIZE:		FILE NAME:

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
DETAILS AND SPECIFICATIONS

SHEET IDENTIFICATION  
**CS501**  
SHEET 21 OF 29

(b) (7)(E)

A



**Michael Baker**  
**I N T E R N A T I O N A L**  
2929 N. Central Ave., Suite 800  
Phoenix, AZ 85012  
Phone: 602.972.1441  
Fax: 602.972.1444  
MBAKERINTL.COM

[illegible]

<b>U.S. ARMY CORPS OF ENGINEERS</b> <b>FORT WORTH DISTRICT</b> <b>FORT WORTH, TEXAS</b>	<b>DESIGNED BY:</b>		<b>DATE:</b> 07/25/2017
	<b>DRAWN BY:</b>	<b>CHKD BY:</b>	<b>SOLICITATION NO.:</b> 160298
	<b>SUBMITTED BY:</b>		<b>CONTRACT NO.:</b> 160298
	<b>PLOT SCALE:</b>		<b>FILE NUMBER:</b>
<b>MICHAEL BAKER INTERNATIONAL, INC.</b> 2929 N. CENTRAL AVE. SUITE 606 PHOENIX, AZ 85012			
<b>SIZE:</b>		<b>FILE NAME:</b>	

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9128G-15-D-0009

SHEET  
IDENTIFICATION  
**CS502**  
SHEET 22 OF 29



D

C

B

A

(b) (7)(E)

ELEVATION - GROUND SLOPE (b) (7)(E)  
N.T.S. (LOOKING SOUTH)



ELEVATION - GROUND SLOPE (b) (7)(E)  
(b) (7)(E)  
N.T.S. (LOOKING SOUTH)



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INTERNATIONAL

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(602)279-1234

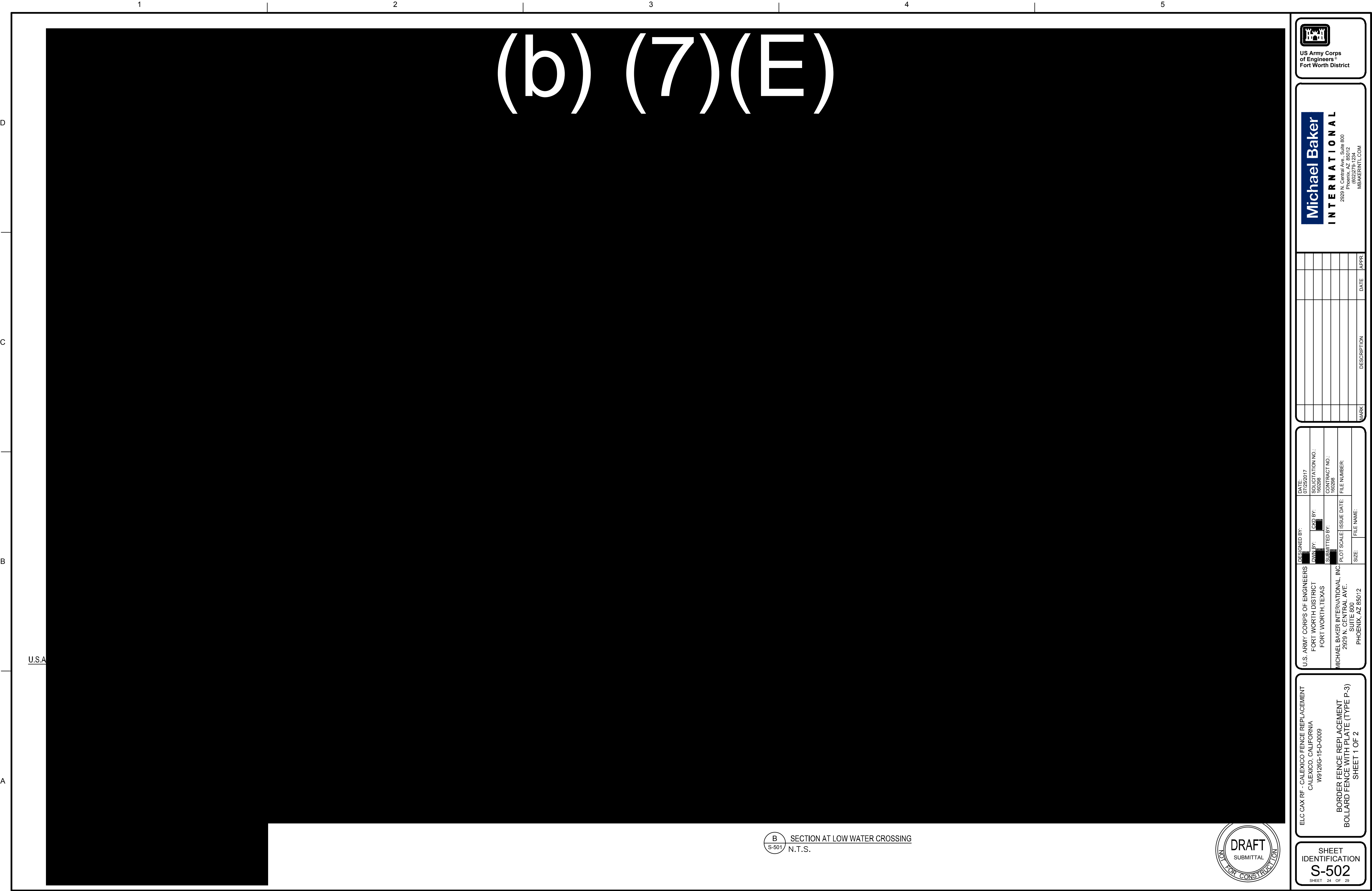
[illegible]

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY:	DATE: 07/25/2017
MICHAEL BAKER INTERNATIONAL, INC. 2929 N. CENTRAL AVE. SUITE 800 DALLAS, TEXAS 75201-2	DWN BY: 	SOLICITATION NO.: 16258
	GRD BY: 	CONTRACT NO.: 16258
	SUBMITTED BY:	FILE NUMBER:
	PLOT SCALE:	ISSUE DATE:
	SIZE:	FILE NAME:

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
BOLLARD FENCE WITH PLATE (TYPE P-3)  
SHEET 1 OF 2

SHEET  
IDENTIFICATION  
**S-501**  
SHEET 23 OF 29



(b) (7)(E)

U.S.A.

**B**  
SECTION AT LOW WATER CROSSING  
N.T.S.



ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009  
BORDER FENCE REPLACEMENT  
BOLLARD FENCE WITH PLATE (TYPE P-3)  
SHEET 1 OF 2

SHEET  
IDENTIFICATION  
**S-502**  
SHEET 24 OF 29

U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH, TEXAS	DESIGNED BY:	DATE: 07/25/2017
	DRAWN BY:	ISSUATION NO.:
	SUBMITTED BY:	CONTRACT NO.:
	FILE NAME:	FILE NUMBER:
MICHAEL BAKER INTERNATIONAL, INC. 2929 N. CENTRAL AVE. SUITE 800 PHOENIX, AZ 85012	SIZE:	FILE NAME:

MARK	DESCRIPTION	DATE	APPR.

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[illegible]

DATE: 07/25/2017

DATE: 07/25/2017

DWN BY:	CKD BY:
---------	---------

DWN BY:

[illegible]

CONTRACT NO.:  
160298

FILE NUMBER:

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U.S. ARMY CORPS OF ENGINEERS

FORT WORTH DISTRICT

FORT WORTH, TEXAS

MICHAEL BAKER INTERNATIONAL, INC.  
2929 N. CENTRAL AVE.

SUITE 800

**ELC CAX RF - CALEXICO FENCE REPLACEMENT**

CALEXICO, CALIFORNIA

W9126G-15-D-0009

BORDER FENCE REPLACEMENT  
PERSONNEL (4) (7)(F) (TYPE C 2)

PERSONNEL (TYPE G-2)

SHEET  
IDENTIFICATION  
**S-505**  
SHEET 27 OF 29

SHEET 27 OF 29

D

C

B

A

NOTES:

1. INTERMEDIATE PANEL BOLLARDS SHALL BE NEAT & ORDERLY ACROSS THE PANEL. THE TOPS OF INTERMEDIATE PANEL BOLLARDS SHALL BE INSTALLED BETWEEN (b) (7)(E)
2. FOR ALL OTHER FENCE DETAILS NOT SHOWN, SEE SHEET S-5.02.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR FIELD LAYOUT AT EACH BANK.
4. (b) (7)(E)



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Fort Worth District

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... ..

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U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT FORT WORTH TEXAS	DESIGNED BY: DRAWN BY: CHKD BY: SUBMITTED BY:	DATE: 10/20/17 SOLICITATION NO.: 160288 CONTRACT NO.: 160286 FILE NUMBER:
MICHAEL BAKER INTERNATIONAL, INC 2923 N. CENTRAL AVE. SUITE 800 FORT WORTH, TEXAS 76107	PLOT SCALE: SIZE: FILE NAME:	ISSUE DATE:

ELC CAX RF - CALEXICO FENCE REPLACEMENT  
CALEXICO, CALIFORNIA  
W9126G-15-D-0009

## BORDER FENCE REPLACEMENT CANTILEVER FENCE DETAILS

SHEET  
IDENTIFICATION  
**S-506**  
SHEET 28 OF 29



